

WHAT IS CLAIMED IS:

1. A fluorescent lamp comprising:

a stem provided with first and second lead wires for energization of an electrode; and

an electrically-insulating member having a first hole and a second hole larger in cross-sectional area than said second lead wire;

wherein said first and second lead wires are inserted in said first and second holes of said electrically-insulating member, respectively; and

wherein an outer diameter of a glass envelope of the fluorescent lamp is not smaller than 13 mm and not larger than 29 mm.

2. A fluorescent lamp as set forth in claim 1, wherein said electrically-insulating member reduces a possibility that substance spattered from said electrode deposits on a surface of said stem and on said first and second lead wires to form a deposit as part of an electric path which short-circuits said first and second lead wires.

3. A fluorescent lamp as set forth in claim 1, wherein said electrically-insulating member functions, when discharge takes place with said first and second lead wires as hot spots, to suppress the discharge from being maintained.

101-4 4. A fluorescent lamp as set forth in claim 1, wherein said electrically-insulating member is held to said first and second lead wires by means of a holding member.

101-5 5. A fluorescent lamp as set forth in claim 1, wherein said electrically-insulating member is a plate-like member and is made of one of an insulating ceramic, quartz glass and mica.

10034333-0403022 6. A fluorescent lamp comprising:
a stem provided with first and second lead wires for energization of an electrode; and
an electrically-insulating member having a first hole and a second hole larger in cross-sectional area than said second lead wire;

~ 36 ~ 41 2 wherein said first and second lead wires are inserted in said first and second holes of said electrically-insulating member, respectively, and then bent in directions so as to increase the spacing between said first and second lead wires at parts of said first and second lead wires which are extended from said stem and which are located on sides of tips thereof from said electrically-insulating member; and

41 { wherein an outer diameter of a glass envelope of said fluorescent lamp is not smaller than 13 mm and not larger than 29 mm.

7. A fluorescent lamp as set forth in claim 6, wherein said electrically-insulating member reduces a possibility that

~37
substance spattered from said electrode deposits on a surface of said stem and on said first and second lead wires to form a deposit as part of an electric path which short-circuits said first and second lead wires.

~38
8. A fluorescent lamp as set forth in claim 6, wherein said electrically-insulating member functions, when discharge takes place with said first and second lead wires as hot spots, to suppress the discharge from being maintained.

~39
9. A fluorescent lamp as set forth in claim 6, wherein said electrically-insulating member is held to said first and second lead wires by means of a holding member.

~40
10. A fluorescent lamp as set forth in claim 6, wherein said electrically-insulating member is a plate-like member and is made of one of an insulating ceramic, quartz glass and mica.

11. A fluorescent lamp device wherein a fluorescent lamp is high-frequency lighted, comprising:

a fluorescent lamp including:

~29-35
~35
a stem provided with first and second lead wires for energization of an electrode; and

an electrically-insulating member having a first hole and a second hole larger in cross-sectional area than said second lead wire;

said first and second lead wires being inserted in said first and second holes of said electrically-insulating member, respectively;

wherein an outer diameter of a glass envelope of said fluorescent lamp is not smaller than 13 mm and not larger than 29 mm; and

wherein a high-frequency lighting circuit is provided for lighting said fluorescent lamp.

12. A fluorescent lamp device as set forth in claim 11, wherein said electrically-insulating member reduces a possibility that substance spattered from said electrode deposits on a surface of said stem and on said first and second lead wires to form a deposit as part of an electric path which short-circuits said first and second lead wires.

13. A fluorescent lamp device as set forth in claim 11, wherein said electrically-insulating member functions, when discharge takes place with said first and second lead wires as hot spots, to suppress the discharge from being maintained.

14. A fluorescent lamp device as set forth in claim 11, wherein said electrically-insulating member is held to said first and second lead wires by means of a holding member.

15. A fluorescent lamp device as set forth in claim 11, wherein said electrically-insulating member is a plate-like

member and is made of one of an insulating ceramic, quartz glass and mica.

16. A fluorescent lamp device wherein a fluorescent lamp is high-frequency lighted, comprising:

a fluorescent lamp including:

a stem provided with first and second lead wires for energization of an electrode; and

an electrically-insulating member having a first hole and a second hole larger in cross-sectional area than said second lead wire;

said first and second lead wires being inserted in said first and second holes of said electrically-insulating member, respectively;

wherein a spacing between a top of said stem and said member being not smaller than 0 mm and not larger than 5 mm; and

wherein a high-frequency lighting circuit is provided for lighting said fluorescent lamp.

2007-01-03 10:00:00